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Set Items Description

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DIALOG(R)File 351:DERWENT WPI

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WPI Acc No: 97-111571/199711

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Prepn. of ester(s) of cinnamic acid and derivs. - by direct reaction of carboxylic acid and alcohol in presence of lipase acting as carboxyl-esterase, solvents and catalysts

Patent Assignee: PROSPECTION FILIERE LIPIDES ASSOC LOI 19 (PROS-N)

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Number of Countries: 001 Number of Patents: 001

Patent Family:

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FR 2736354 A1 19970110 FR 958213 A 19950703 C07C-069/734 199711 B

Priority Applications (No Type Date): FR 958213 A 19950703

Patent Details:

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FR 2736354 A1 15

Abstract (Basic): FR 2736354 A

Esters of formula (I) are prepd. by direct reaction of a carboxylic acid of formula (II) with an alcohol R'OH, in presence of a lipase acting as carboxylesterase. R1-R5 = H, OH, halo (pref. F), an ether gp. (pref. methyl or ethyl ether), or an opt. substd. C chain; R' = opt. unsatd. C chain, opt. carrying an aromatic ring.

USE - (I) are esp. used in cosmetics, e.g. esters of 4-methoxycinnamic acid are used as UV filters in sun creams. A further application is in perfumery, and esters of caffeic acid or ferulic acid are antioxidants.

ADVANTAGE - The process is cheap, uses natural prods. and avoids solvents and/or toxic catalysts.

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Title Terms: PREPARATION; ESTER; CINNAMIC; ACID; DERIVATIVE; DIRECT; REACT;

CARBOXYLIC; ACID; ALCOHOL; PRESENCE; LIPASE; ACT; CARBOXYL; ESTERASE;

SOLVENT; CATALYST

Derwent Class: D16; D21; D23; E14

International Patent Class (Main): C07C-069/734

International Patent Class (Additional): C07C-069/618; C07C-069/732

File Segment: CPI

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01 G010 G020 G021 G033 G036 G037 G040 G111 G221 G561 H401 H402 H403
H404 H461 H462 H463 H464 H561 H562 H563 H600 H601 H608 H609 H661
H662 H663 H7 H721 J0 J011 J2 J271 M210 M211 M212 M213 M214 M215 M216
M220 M221 M222 M223 M224 M225 M226 M231 M232 M233 M240 M272 M281
M282 M283 M311 M312 M313 M314 M315 M316 M321 M322 M331 M332 M333
M340 M342 M372 M373 M391 M414 M415 M510 M520 M530 M531 M541 M720
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